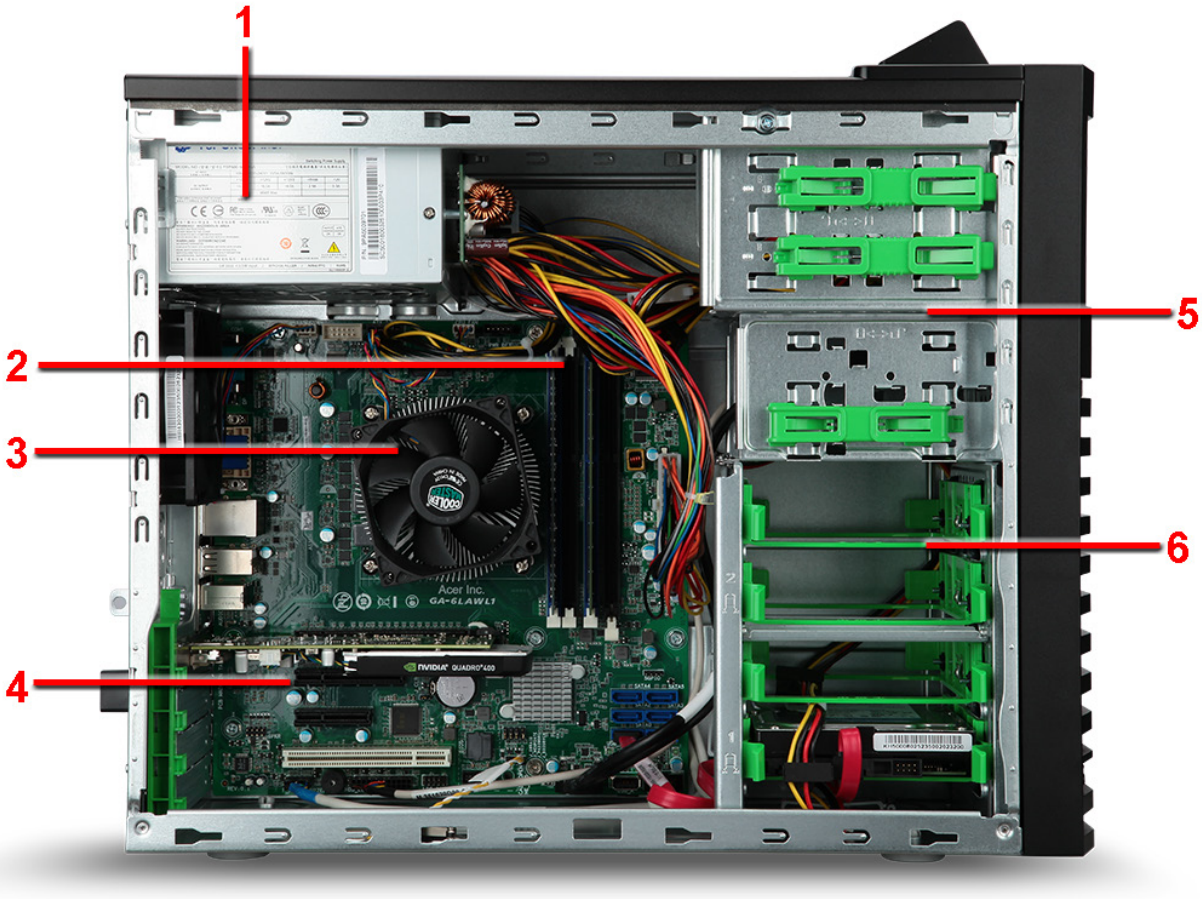
Veriton P130 F3 Specifications

Product overview

The Veriton P130 F3 workstation supports Intel® Xeon® E3-1200 v3 processors and a wide range of the latest NVIDIA® graphics cards to deliver rock-solid performance and great flexibility. With power-saving hardware as well as substantial advancements in HDD and memory maximization, the Veriton P130 F3 offers a comprehensive solution for all business scenarios.

Product views

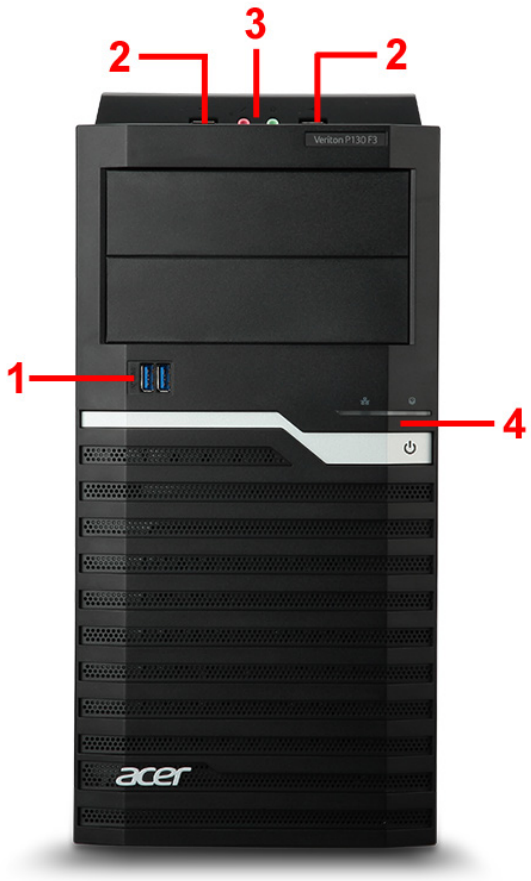
Internal view



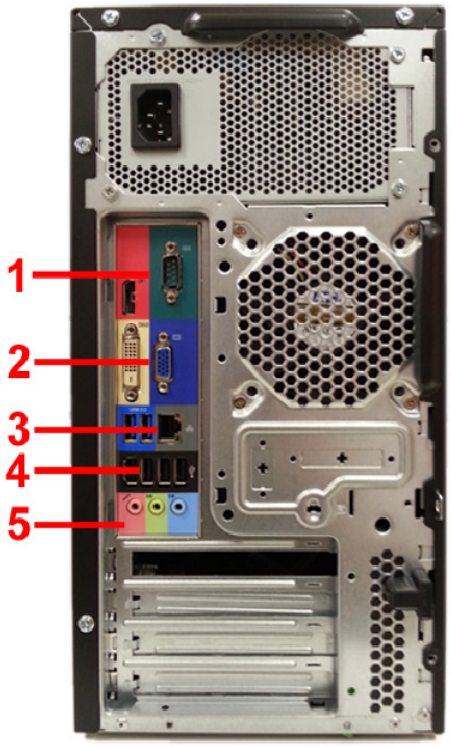
1. 500 W 80 PLUS® Gold-certified fixed power supply
2. 4 x DDR3 ECC unbuffered DIMMs
3. Intel® Xeon® E3-1200 v3 series, Core i series, Pentium series processors
4. 3 x PCIe & 1 PCI expansion slots
5. 2 x 5.25” media expansion bays
6. 4 x 3.5” hard drive bays

Veriton P130 F3 Specifications

Front view



Rear View



Front I/O

1. 2 x USB 3.0 ports
2. 2 x USB 2.0 ports
3. Microphone-in jack / Speaker- / line-out jack
4. LED indicators: HDD activity, LAN / Power button

Rear I/O

1. DisplayPort / Serial port
2. DVI-D port / VGA port
3. 2 x USB 3.0 ports / Gigabit LAN port (RJ-45)
4. 4 x USB 2.0 ports
5. Microphone-in jack / Speaker- and line-out jack / Line-in jack

Veriton P130 F3 Specifications

Product Specifications

What's New

- Intel® Xeon® E3-1200 v3 series processors
- USB 3.0
- 6 Gb/s SATA3
- Standard 500 W 80 PLUS® Gold-certified fixed power supply
- On-board audio

Processors and Chipset

- Intel® Xeon® E3-1200 v3 series, Core™ i7, i5 and i3 series, Pentium® series processors
- Chipset: Intel® C226

Memory

- Memory capacity:
  - Unbuffered DIMM: 2, 4, 8 GB
- Maximum capacity: up to 32 GB unbuffered ECC DIMMs when fully populated with 2 DIMMs per channel in 4 slots

Onboard Graphics

Onboard graphic specifications depend on the processor installed.

- Intel® Core™ and Pentium® processors: Intel HD Graphics (exact version depends on processor used).
- Intel® Xeon® with 2GT: Intel HD Graphics P4600.
- Intel® Xeon® without 2GT: no onboard graphics capability, an add-in graphics card must be installed.

Add-in Graphics

- NVIDIA® Quadro®
- NVIDIA® Quadro® NVS
- NVIDIA® GeForce®

Onboard Audio

- Realtek High Definition Audio ALC262

Network Controllers

- Integrated single-port Intel® I217LM Gigabit Ethernet

Storage

- Hard disk form factor: 3.5"
- Type: SATA

Storage Controllers

- Intel® C226 onboard storage controller
- Intel® RST 12.x, RAID 0, 1, 5, 10

Expansion slots

- 1 x PCIe® 3.0 x16

- 1 x PCIe® 2.0 x4 (x8 connector)
- 1 x PCIe® 2.0 x1 (x4 connector)
- 1 x PCI

Deployment/Serviceability

- Acer Resource Kit
- BIOS Update Tool

Operating Systems

- Windows 8 Pro
- Windows 7 Ultimate
- Windows 7 Professional
- Red Hat Enterprise Linux Workstation 6.4
- Ubuntu 12.04.02 Desktop

Input/output interface

Front

- 2x USB 3.0 ports
- 2x USB 2.0 ports
- Microphone-in jack
- Speaker- / line-out jack
- Power/off button
- LED indicators: power, HDD activity, LAN

Rear

- 2 x USB 3.0 ports
- 4 x USB 2.0 ports
- Serial port
- DisplayPort
- DVI-D port
- Video (D-sub) port
- Gigabit LAN port
- Microphone-in jack
- Line-in jack
- Speaker- / line-out jack

Optical drive

- SuperMulti drive
- DVD-ROM drive

Chassis/Form Factor

- Micro ATX tower

Power Supply

- 500 W 80 PLUS® Gold-certified fixed power supply

Regulatory Compliant Standards

- Energy Star® compliant

EMC

- FCC (Class B)
- CE (Class B)
- BSMI (Class B)

Safety

- MET
- CB
- Nemko/GS

Environmental Specifications

Dimensions	180 (W) x 406 (D) x 385 (H) mm (7.1 (W) x 16 (D) x 15.2 (H) inches)	
Weight	Maximum	12.4 kg (27.3 lbs.)
	Minimum (includes a single HDD, CPU and RAM, and PSU)	10.2 kg (22.4 lbs.)
System inlet temperature	Operating	5° - 40° C (41° - 104° F)
	Non-operating	-20°- 60° C (-4° to 140° F)
Relative humidity	Operating	30 ~ 80%
	Non-operating	5 ~ 95%
Acoustics	**Idle**	
	LWAd	3.27 BA
	LpAm	19.7 dBA
	Operating	
	LWAd	3.88 BA
	LpAm	26.2 dBA
Power	Range line voltage	100 ~ 120 Vrms, 200 ~ 240 Vrms
	Rated input current	10 A max. (at 100 ~ 127 Vrms/ 60 Hz) 5 A max. (at 220 ~ 240 Vrms/ 50 Hz)
	Rated input frequency	47 ~ 63 Hz
	Rated input power	569.625 W (at 100 VAC)
	Fixed 500 W Gold-certified high-efficiency power supply.	
BTU rating (maximum)	1944.11 BTU/hr (at 100 VAC), 1835 BTU/hr (at 240 VAC)	

Technical specifications

PCIe® specifications

The primary I/O bus for the main board is PCIe Gen3. The following table lists the characteristics of the PCI-E bus segments. Details about each bus segment follow the table.

NOTE: The signaling bit rate of PCI Express is 2.5Gbit/s for Gen 1, 5.0Gbit/s for Gen 2, and 8.0Gbit/s for Gen 3.

Expansion slot	CPU / PCH	Type	Bus width[1]	Voltage	Connector	Location	Height
PCIe x16	CPU1	PCIe Gen3	x16	3.3 V	x16	Onboard	Full-height
PCIe x8	PCH	PCIe Gen2	x4	3.3 V	x8	Onboard	Full-height
PCIe x4	PCH	PCIe Gen2	X1	3.3 V	x4	Onboard	Full-height
PCI	PCH	PCI	32 bit	5 V	PCI	Onboard	Full-height

NOTE:

1. Indicates the number of physical electrical lanes running to a PCIe® connector.

Slots are enumerated differently based on the operating system. Microsoft® operating systems enumerate Device ID by bus starting from the lowest bus to the highest.

NVIDIA® Quadro® 4000 graphics card requires an additional 12 V power connection (from the power supply). The tool-less PCI holder may not be used in systems using the NVIDIA® Quadro® 4000; all PCI cards must instead be fastened with screws.

Onboard storage specifications

Item	Description
Controller	Intel® C226 onboard controller
Simultaneous drive transfer channels	6 onboard SATA ports
Max throughput per channel	6 Gb/s
Data transfer method	• Non-RAID mode • RAID mode
Drive type supported	Serial ATA
RAID levels support	• RAID 0, 1, 5, 10 (Intel software RAID) **NOTE**: Intel software RAID only supports Windows OS
RAID function support	• Supports multiple logical volumes • Setup through ROM based Array Configuration Utility Installation scripting support **NOTE:** This controller does not support hot plug or LED functions
RAID OS support	• Windows 8 Pro • Windows 7 Ultimate • Windows 7 Professional
Additional features	• NCQ (Native Command Queuing) • AHCI (Advanced Host Controller Interface)

Onboard LAN specifications

Item	Description
Controller	Intel PHY I217LM
Port number	Single port
Network interface	10Base-T / 100Base-TX / 1000Base-T
Compatibility standards	• IEEE 802.3 Ethernet interface for 10BASE-T • IEEE 802.3ab Ethernet interface for 1000BASE-T • IEEE 802.3u Ethernet interface for 100BASE-TX
Remote boot functionality	Support PXE, iSCSI boot
Connector	RJ-45
Supported cable type	Cat 5e, Cat 6 wire

Memory specifications and population

Supported memory types

- Unbuffered DDR3 1333 /1600 MHz

NOTE: Acer does not qualify mixed memory configurations of memory type, capacity or make.

Population

Acer's validated memory populations are listed below.

NOTE: Support for 8 GB DIMMs may vary by regional availability.

Capacity	DIMM_A0	DIMM_A1	DIMM_B0	DIMM_B1
2 GB	None	None	None	**2GB**
4 GB	None	**2GB**	None	**2GB**
8 GB	**2GB**	**2GB**	**2GB**	**2GB**
4 GB	None	None	None	**4GB**
8 GB	None	**4GB**	None	**4GB**
16 GB	**4GB**	**4GB**	**4GB**	**4GB**
8 GB	None	None	None	**8GB**
16 GB	None	**8GB**	None	**8GB**
32 GB	**8GB**	**8GB**	**8GB**	**8GB**

Power specifications

500 W power supply

Power supply input

Rated Line Voltage	100 to 127 VAC ; 220 to 240 VAC
Rated Input Current	500 W power supply: 10 A (@ 100~127 VAC), 5 A (@220~240 VAC)
Rated Input Frequency	47 to 63 Hz
Rated Input Power	500 W power supply: 569.625 W (@ 100 VAC)

Power supply output

Rated Steady-State Power	500 W power supply
Maximum Peak Power	500 W power supply

BTU Rating (Maximum)

500 W power supply: 1944.11 BTU/hr (@ 100 VAC), 1835 BTU/hr (@240 VAC)

Available options

Processors

Intel® Xeon® E3-1200 v3 Processors

E3-1280 v3 (8 MB L3 cache, 3.60 GHz, DDR3 1600/1333 MHz, 82 W, quad core) *

E3-1275 v3 (8 MB L3 cache, 3.50 GHz, DDR3 1600/1333 MHz, 84 W, quad core, 2GT**)

E3-1270 v3 (8 MB L3 cache, 3.50 GHz, DDR3 1600/1333 MHz, 80 W, quad core)*

E3-1245 v3 (8 MB L3 cache, 3.40 GHz, DDR3 1600/1333 MHz, 84 W, quad core, 2GT**)

E3-1240 v3 (8 MB L3 cache, 3.40 GHz, DDR3 1600/1333 MHz, 80 W, quad core)*

E3-1230 v3 (8 MB L3 cache, 3.30 GHz, DDR3 1600/1333 MHz, 80 W, quad core)*

E3-1225 v3 (8 MB L3 cache, 3.20 GHz, DDR3 1600/1333 MHz, 84 W, quad core, 2GT**)

E3-1220 v3 (8 MB L3 cache, 3.10 GHz, DDR3 1600/1333 MHz, 80 W, quad core)*

Intel® Core™ i7 Processors

Intel® Core™ i7-4770 (8 MB, 3.4 GHz, DDR3 1600, 84 W, quad core)***

Intel® Core™ i5 Processors

Intel® Core™ i5-4670 (6 MB, 3.4 GHz, DDR3 1600, 84 W, quad core)***

Intel® Core™ i5-4670S (6 MB, 3.1 GHz, DDR3 1600, 65 W, quad core)***

Intel® Core™ i3 Processors

Intel® Core™ i3-4340 (4 MB, 3.6 GHz, DDR3 1600, 54 W, dual core)***

Intel® Pentium® Processors

Intel® Pentium® G3430 (3 MB, 3.3 GHz, DDR3 1600, 54 W, dual core)***

* No integrated graphics, an add-in graphics card must be installed

** Integrated Intel HD Graphics P4600

*** Integrated Intel HD Graphics

Memory

Memory type	Unbuffered DDR3 ECC memory
Capacities	2/4/8 GB DIMMs
DIMM number	4
Max memory	32 GB

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Hard drives

Type	Interface, bandwidth	Capacities
Enterprise Nearline SATA, 3.5"	6 Gb/s	500 GB (7.2K) 1 TB (7.2K) 2 TB (7.2K) 3 TB (7.2K) 4 TB (7.2K)
Consumer-level SATA, 3.5"	6 Gb/s	500 GB (7.2K) 1 TB (7.2K) 2 TB (7.2K) 3 TB (7.2K)

Video cards

Onboard graphic specifications depend on the processor installed.

- Intel® Core™ processor: Intel HD Graphics (exact version depends on processor used).
- Intel® Xeon® with 2GT: Intel HD Graphics P4600.
- Intel® Xeon® without 2GT: no onboard graphics capability, an add-in graphics card must be installed.

NVIDIA® Quadro®

NVIDIA® Quadro® 4000, 2 GB, DVI / DPx2, ATX (requires additional 12 V power)*

NVIDIA® Quadro® 2000, 1 GB, DVI / DPx2, ATX

NVIDIA® Quadro® 600, 1 GB, DVI / DP, ATX

NVIDIA® Quadro® 410, 512 MB, DVI / DP, ATX

NVIDIA® Quadro® NVS

NVIDIA® Quadro® NVS450, 512 MB, DPx4, ATX

NVIDIA® Quadro® NVS310, 512 MB, DPx2, ATX

NVIDIA® GeForce®

NVIDIA® GeForce® GT605, 1 GB, DVI / DP, ATX

* The tool-less PCI holder may not be used in systems using the NVIDIA® Quadro® 4000; all PCI cards must instead be fastened with screws.

Optical drives

DVD-ROM

SuperMulti (DVD ± RW)

Ethernet network cards

Model	Port number	Bandwidth
Intel® Gigabit CT2 desktop adapter	1	10/100/1000 Mbps

Intel® i350-T2 server adapter	2	10/100/1000 Mbps

TPM module

TPM 1.2 module with Nuvoton chip

Service and support

Acer workstations offer a comprehensive service suite to take care of daily IT needs. Users can select the 3-year standard warranty or choose extended warranties and services.

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